

# AVIATION RULEMAKING ADVISORY COMMITTEE (ARAC)

## Noise Certification Issues

### Meeting Minutes

**DATE:** June 21, 1995  
**TIME:** 9:00 a.m.  
**PLACE:** General Aviation Manufacturers Association, 1400 K Street, NW, Suite 801,  
Washington, DC

The Assistant Chair, Mr. David A. Hilton of Gulfstream Aerospace Corporation, called the meeting to order at 9:10 a.m. Agendas were distributed (Attachment 1) and an attendance sheet was circulated (Attachment 2). Mr. Paul R. Dykeman, Assistant Executive Director, read instructions governing the conduct of the meeting.

Mr. Hilton stated that the Federal Aviation Administration (FAA) had tasked the Noise Certification Issues with the harmonization of the Federal Aviation Regulations (FAR) 36 and Joint Aviation Requirements (JAR) 36 in 1994. As a result of this tasking, three working groups were established.

Mr. Hilton reviewed the progress made by the three different working groups. A list of the working group representatives and corresponding schedules was distributed along with a list of Terms of Reference (TOR). (Attachments 3 and 4).

FAR/JAR 36 Harmonization Working Group for Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes - This working group developed the TOR's, compared FAR 36 to JAR 36, prepared papers on the differences, and is currently investigating how to technically address each of those concerns. One of the issues that needs resolution is the adoption of Annex 16 into the U.S. regulations by reference. An aggressive schedule has been developed in this work plan.

FAR/JAR 36 Harmonization Working Group for Helicopters - This working group is in the process of developing technical position papers, and is expecting to submit a Notice of Proposed Rulemaking to the ARAC by September 1996. Some of the issues that need resolution include: acoustical changes (FAR 21) and a schedule that competes for FAA legal and economic support with the Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes working group.

FAR/JAR 36 Harmonization Working Group for Propeller Driven Small Airplanes - Mr. Hilton stated that this working group is requesting legal and economic support for their July meeting.

Mr. Hilton stated that he would speak with the Chairs of the three working groups and obtain verification that the attached schedules are still correct. The Noise Certification Issues approved all of the concepts presented.

Mr. Hilton adjourned the meeting at 9:40 a.m.

Attendance

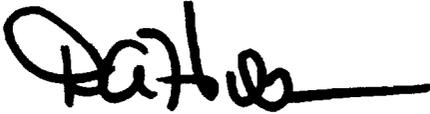
The June 21, 1995, meeting of the ARAC to address Noise Certification issues was attended by six people, including committee members, alternates, government employees, and members of the general public.

Public Notification

An announcement of the meeting was published in the Federal Register on May 24, 1995 (60 FR 27590).

Approval

I certify that the above minutes are accurate.

A handwritten signature in black ink, appearing to read "D. Hilton", with a long horizontal line extending to the right.

Mr. David A. Hilton,  
Assistant Chair for ARAC Noise Certification

Issued: JUL 11 1995

4 Attachments

FEDERAL AVIATION ADMINISTRATION

Aviation Rulemaking Advisory Committee Meeting on  
Noise Issues  
June 21, 1995  
General Aviation Manufacturers Association  
Suite 800  
1400 K Street, NW  
Washington, DC 20005

AGENDA

- Opening Remarks David Hilton
- Committee Administration David Hilton/Paul Dykeman
- Presentation of Work Plan by the FAR/JAR  
Harmonization Working Group for Helicopters David Hilton
- Presentation of Work Plan by the FAR/JAR  
Harmonization Working Group for Propeller-  
Driven Small Airplanes David Hilton
- Status Report from the FAR/JAR Harmonization  
Working Group for Subsonic Transport Category  
Large Airplanes and Subsonic Turbojet Powered Airplanes David Hilton
- Schedule Future Meetings David Hilton
- Adjourn



General Aviation  
Manufacturers Association

ARAC FAR/JAR 36 HARMONIZATION

MEETING 6.21.95

MEMBERS

PLEASE PRINT

| <u>NAME</u>    | <u>COMPANY</u>                 | <u>PHONE &amp; FAX</u> |                |
|----------------|--------------------------------|------------------------|----------------|
| D.A. HILTON    | GULFSTREAM                     | (912) 965 3106         | (912) 965 4812 |
| C. S. Schulken | Airports Council International | 202-293-8500           | 202-331-1362   |
| PAUL DYKEMAN   | FAA                            | 202 267 5577           | 202 267 5594   |



ARAC FAR/JAR 36 Harmonization  
Working Group Co-Chairs and  
Regulatory Representatives

1. Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes

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SNECMA  
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Mail Drop YKVA  
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Cramayel, France

Tel 33 1 60597396  
Fax 33 1 60598725

2. Helicopters

Mr. Charlie Cox  
Chief of Acoustics  
Bell Helicopter Textron, Inc.  
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Fort Worth, TX 76101

Tel (817) 280-5600  
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Dr. S. R. Nagaraja  
Engineering Quality Manager  
Agusta Eli S. r.l.  
Via G. Agusta, 520  
21017 - Cascina Costa di Samarato (VA)  
Italy

Tel 39 331 229649  
Fax 39 331 222595

3. Propeller Driven Small Airplanes

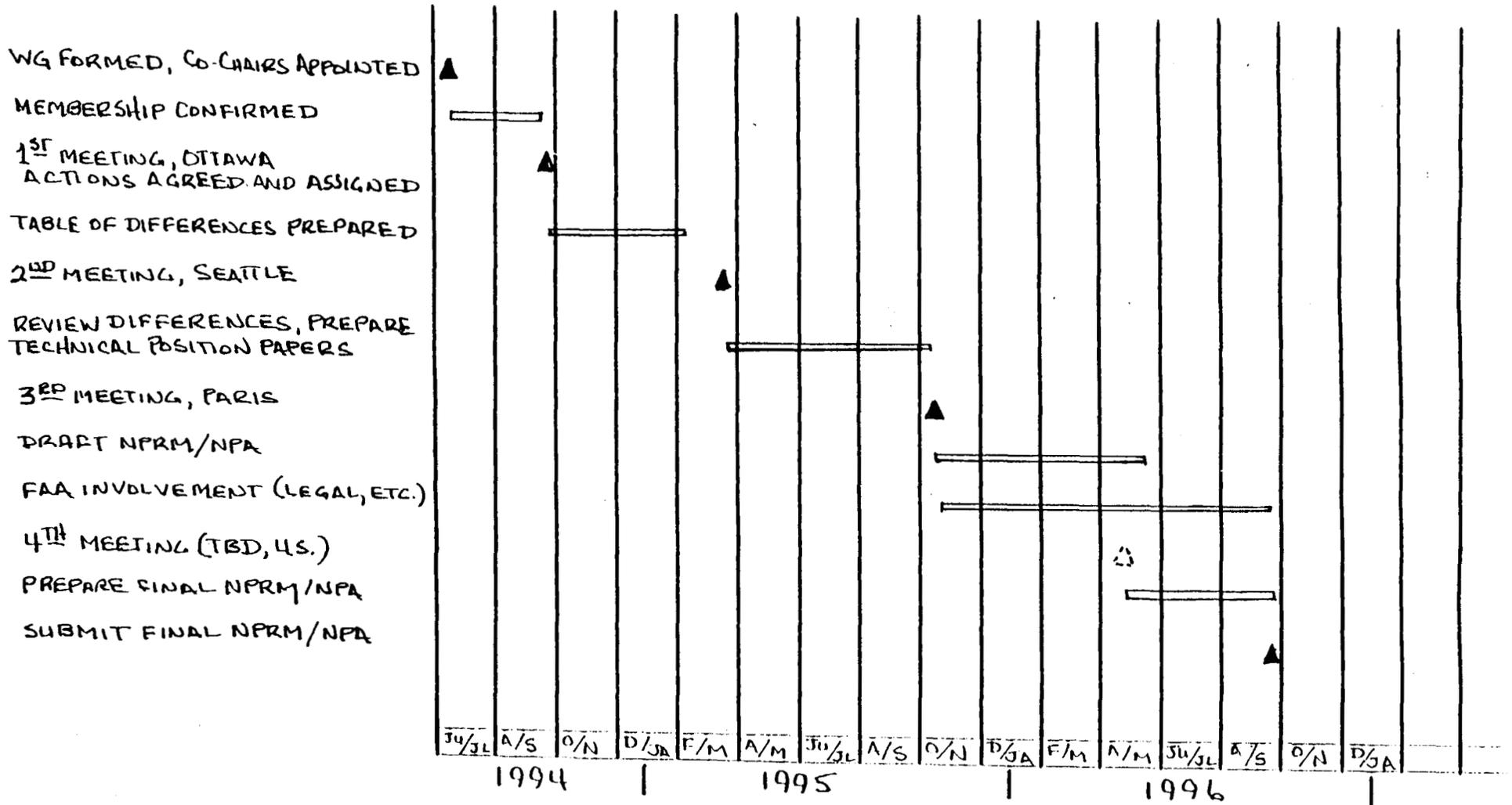
Mr. Robert L. Howes  
Supervisor, Acoustics and Vibrations  
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Cessna Aircraft Company  
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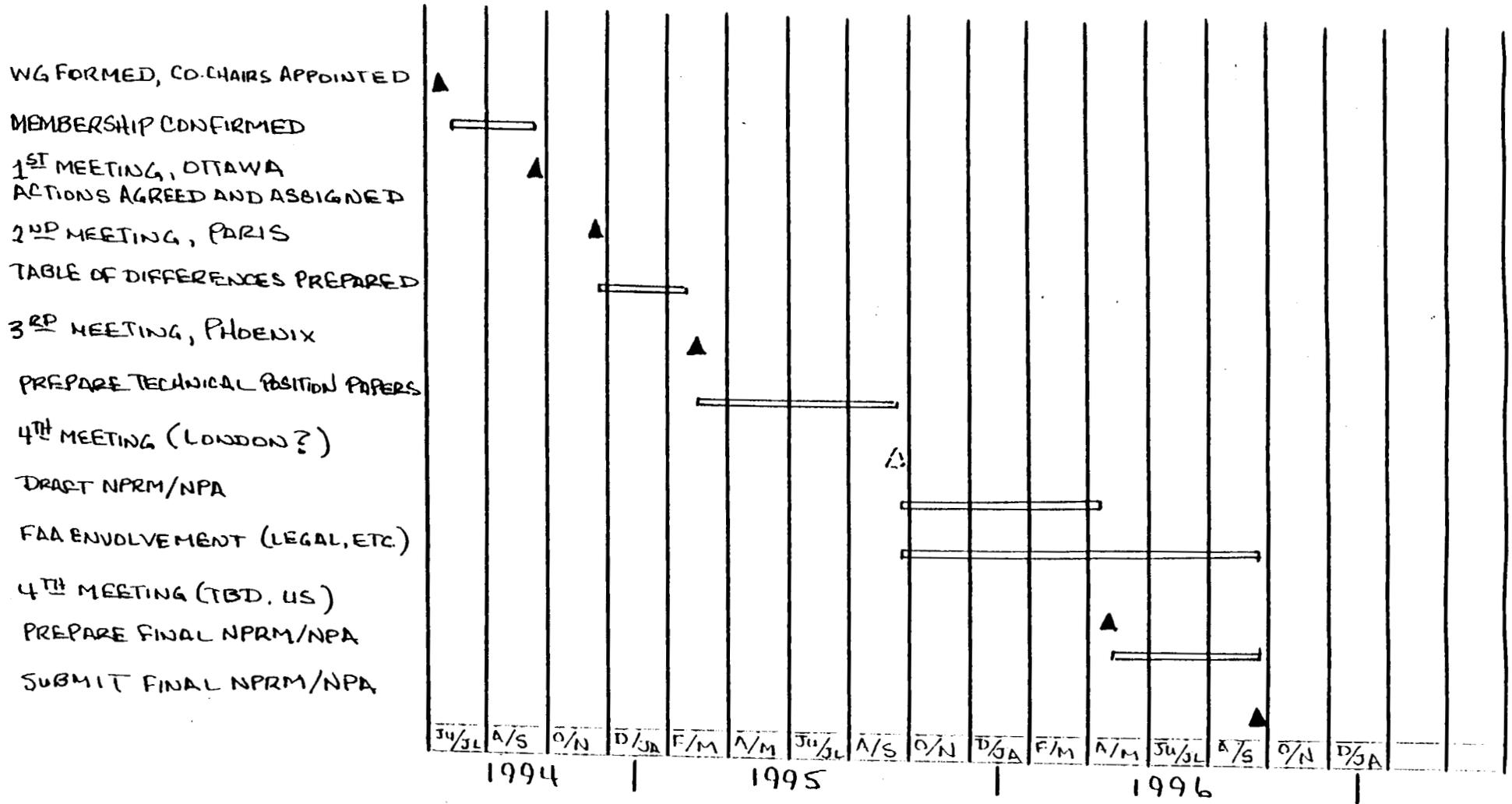
Mr. R. Wilson  
Technical Director  
Pilatus Britten Norman  
Bembridge Airport  
Isle of Wight  
PO35 5PR, United Kingdom

Tel 44 983 872511 Ext 124  
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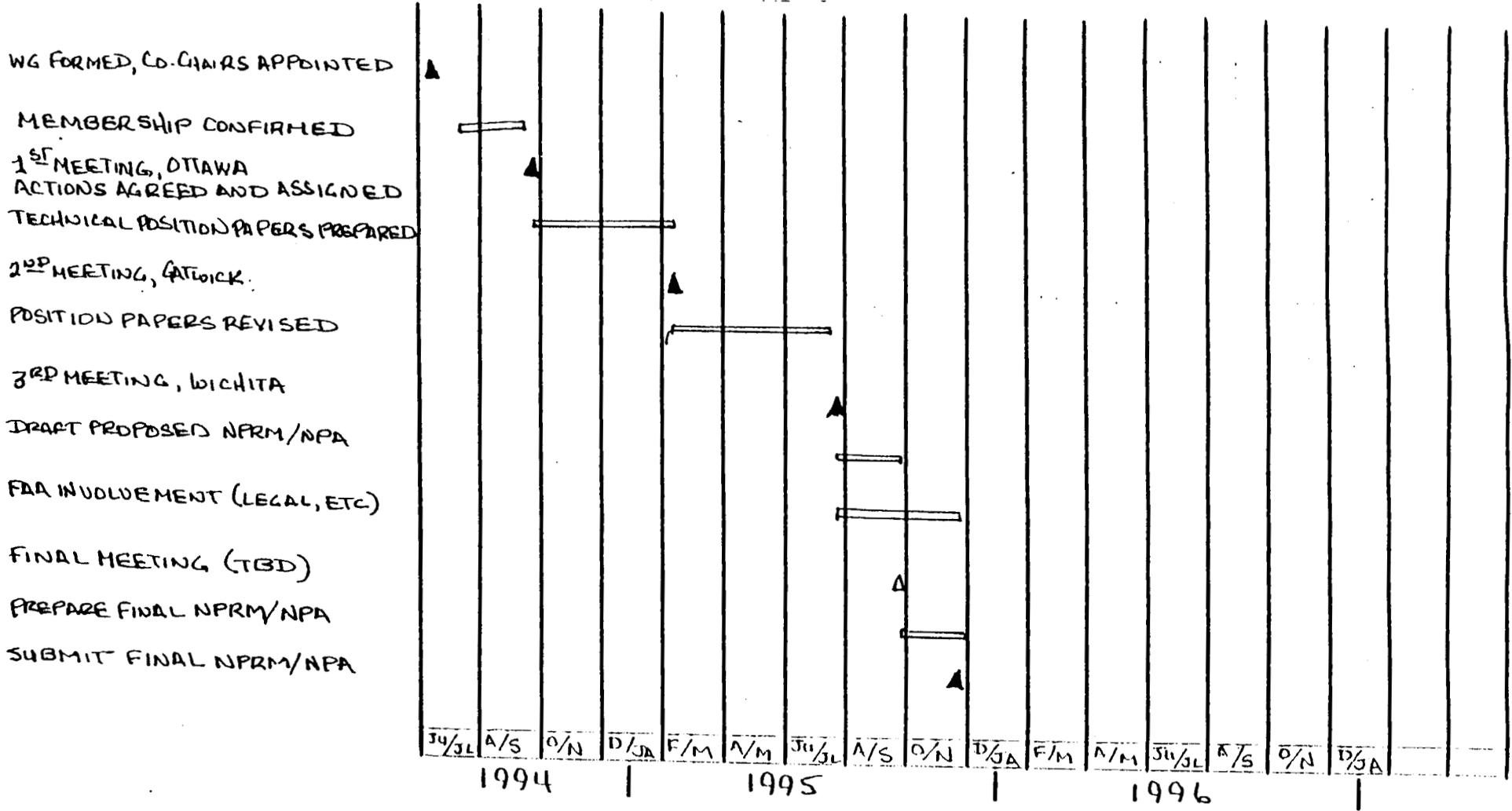
# FAR/JAR 36 HARMONIZATION WORKING GROUP FOR SUBSONIC TRANSPORT CATEGORY LARGE AIRPLANES AND SUBSONIC TURBOJET POWERED AIRPLANES



# FAR/JAR HARMONIZATION GROUP FOR HELICOPTERS



# FAR/JAR HARMONIZATION WORKING GROUP FOR PROPELLER DRIVEN SMALL AIRPLANES



**FAR/JAR 36 HARMONIZATION WORKING GROUP FOR SUBSONIC  
TRANSPORT CATEGORY LARGE AIRPLANES AND SUBSONIC TURBOJET  
POWERED AIRPLANES**

**Terms of Reference**

- 1. Purpose of Work: Minimize resources /costs of certification through continual harmonization**
  
- 2. What**
  - 2.1 ICAO Annex 16, Volume 1, Chapter 3 and references**
  - 2.2 JAR36 Section/Subsection A**
  - 2.3 FAR36 subparts A,B and C (excluding Stage 2 and subpart D) and AC36 - 4B and associated references**
  
- 3. How**
  - 3.1 Identify differences from current Annex 16**
  - 3.2 Allocate priorities and establish work program**
  - 3.3 Resolve differences**
  - 3.4 Review impact of CAEP3 recommendations to change Annex 16, Chapter 3**
  - 3.5 Draft appropriate NPRM(s) and NPA(s)**
  - 3.6 Recommend a process for ensuring harmonization of interpretation**
  - 3.7 Recommend a process to assure that subsequent ICAO Annex 16 changes are properly incorporated in FAR & JAR 36**
  
- 4. When**
  - 4.1 Expected date for technical agreement delivery (3.1 - 3.3) October 1995**
  - 4.2 Expected date for delivery of draft NPA(s) and NPRM(s) to JAA and FAA (3.4 and 3.5): September 1995**
  - 4.3 Expected date for Recommendations for process to assure continuing harmonization (3.6 & 3.7): March 1997**

# **FAR/JAR HARMONIZATION GROUP FOR HELICOPTERS**

## **Terms of Reference**

The FAR/JAR Harmonization Working Group for Helicopters (HHWG) shall undertake to develop proposals for the harmonization of the Federal Aviation Regulations (14 CFR Part 36) with Joint Aviation Requirements (JAR-36), their associated guidance material including equivalent procedures and the interpretation of the regulations/requirements. This undertaking includes the following:

- a) review the applicable provisions and interpretation of Subparts A & H and Appendices H & J of Part 36 and associated provisions of FAR Advisory Circular AC 36-4B; the applicable provisions and interpretation of Section 1, Sub-sections D & E and Appendices 1 & 4 of JAR-36 and the associated provisions of Section 2, JAR-36; and the corresponding applicable provisions and interpretations of Chapters 8 & 11 and Appendices 2 & 4 of the International Civil Aviation Organization (ICAO) Annex 16, Volume 1 and its associated Technical Manual;
- b) identify and confirm the differences between FAR 36 and JAR 36;
- c) recommend a work plan for completion of harmonization tasks, give a detailed conceptual presentation on the recommended work plan to the JAR 36 Working Group and the FAA Aviation Rulemaking Advisory Committee (ARAC) and give status reports on the harmonization tasks at meetings of JAR 36 WG and the ARAC;
- d) if considered appropriate, develop Notices of proposed Rulemaking (NPRM) to FAR Part 36 and Notices of Proposed Amendment (NPA) to JAR 36 which propose the revised rules/requirements for helicopter noise certification, a supporting economic and other required analysis, advisory and guidance material and any other collateral documents the HHWG determines to be needed;
- e) forward recommendations to the ARAC and the JAR 36 Working Group for subsequent submission to the FAA & JAA for executive review.

**FAR/JAR HARMONIZATION WORKING GROUP FOR  
PROPELLER DRIVEN SMALL AIRPLANES**

**Terms of Reference**

1. The harmonisation working group will identify a work program and ascribe priorities to individual tasks in order to accomplish the following:

**"Identify and confirm the differences between the Noise Certification Requirements of the American Federal Aviation Regulations and European Joint Airworthiness Requirements as applicable to Propeller Driven Airplanes and to draft proposed Notices of Proposed Rulemaking to FAR's and/or Notices of Proposed Amendment to JAR's that will accomplish harmonization of Part 36 Appendix G of the Federal Aviation Regulations (14 CFR Part 36) with Joint Aviation Requirements, JAR-36, Section 1, Sub Section C. In addition proposed changes aimed at achieving harmonization of guidance and interpretative material contained in the FAR Advisory Circular AC36-4B, FAA Policy Letters and JAR 36 Section 2 will be undertaken."**

2. Work program output will be documents outlining proposals for changes to noise certification requirements and recommendations for guidance material that will result in harmonization between the subject bodies of regulation as well as their interpretation and implementation.
3. Proposals for changes to the noise certification requirements, guidance and interpretive material will be submitted to the JAR 36 working group and ARAC for approval and subsequent submission to the FAA and JAA for executive review.
4. Progress on the work of the harmonisation working group will be reported periodically to the ARAC and JAR 36 working group.

**Aviation Rulemaking Advisory  
Committee Meeting on Noise  
Certification Issues**

**AGENCY:** Federal Aviation  
Administration (FAA), DOT.  
**ACTION:** Notice of meeting.

**SUMMARY:** The FAA is issuing this notice to advise the public of a meeting of the Federal Aviation Administration Aviation Rulemaking Advisory Committee to discuss noise certification issues.

**DATES:** The meeting will be held on June 21, 1995, at 9 a.m. Arrange for oral presentations by June 7, 1995.

**ADDRESSES:** The meeting will be held at the General Aviation Manufacturers Association, suite 801, 1400 K Street, NW., Washington, DC 20005.

**FOR FURTHER INFORMATION CONTACT:** Carolina Forrester, Federal Aviation Administration, Office of Rulemaking (ARM-206), 800 Independence Avenue SW., Washington, DC 20591, telephone (202) 267-9690; fax (202) 267-5075.

**SUPPLEMENTARY INFORMATION:** Pursuant to § 10(a)(2) of the Federal Advisory Committee Act (Pub. L. 92-463; 5 U.S.C. App. II), notice is hereby given of a meeting of the Aviation Rulemaking Advisory Committee to be held on June 21, 1995, at the General Aviation Manufacturers Association, Suite 801, 1400 K Street, NW., Washington, DC 20005. The agenda will include:

- Opening Remarks.
- Committee administration.
- Presentation of Work Plan by the FAR/JAR Harmonization Working Group for Helicopters.
- Presentation of Work by the FAR/JAR Harmonization Working Group for Propeller-Driven Small Airplanes.
- Status Report from the FAR/JAR Harmonization Working Group for Subsonic Transport Category Large Airplanes and Subsonic Turbojet Powered Airplanes.
- A discussion of future meeting dates, activities, and plans.
- Adjourn.

Attendance is open to the interested public, but will be limited to the space available. The public must make arrangements by June 7, 1995, to present oral statements at the meeting. The public may present written statements to the Committee at any time by providing 25 copies to the Executive Director, or by bringing the copies to him at the meeting. In addition, sign and oral interpretation can be made available at the meeting, as well as an assistive listening device, if requested 10 calendar days before the meeting. Arrangements may be made by contacting the person listed under the heading **FOR FURTHER INFORMATION CONTACT**.

Issued in Washington, DC, on May 19, 1995.

**Paul R. Dykeman,**

*Assistant Executive Director for Noise  
Certification Issues, Aviation Rulemaking  
Advisory Committee.*

[FR Doc. 95-12752 Filed 5-23-95; 8:45 am]

**BILLING CODE 4910-13-M**

[4910-3]

**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

Aviation Rulemaking Advisory Committee Meeting on Noise  
Certification Issues

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Issued in Washington, DC, on MAY 19 1995



Paul R. Dykeman,  
Assistant Executive Director  
for Noise Certification Issues,  
Aviation Rulemaking Advisory Committee.